

ITEM 614 - MAINTAINING TRAFFIC

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON SR 73. TRAFFIC SHALL BE MAINTAINED BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC AND TEMPORARY SURFACES OF ITEMS 410 AND 614.

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON JACKSONBURG RD EXCEPT FOR A PERIOD NOT TO EXCEED 60 DAYS DURING PHASE 1 AND A PERIOD NOT TO EXCEED 60 DAYS DURING PHASE 2 WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 15. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$750 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE WITHIN THE PROJECT WORK LIMITS THROUGH THE DURATION OF ALL PHASES OF CONSTRUCTION. THIS SHALL BE ACCOMPLISHED THROUGH THE USE OF EXISTING, PROPOSED, AND TEMPORARY DRAINAGE ITEMS. PERMANENT PROPOSED DRAINAGE ITEMS IN THEIR DESIGN LOCATION SHALL BE USED WHERE FEASIBLE. FURNISH A MINIMUM DIAMETER OF 12 INCHES FOR TEMPORARY STORM SEWER AND DRIVE PIPES AND 18 INCHES FOR TEMPORARY CULVERTS. ALL COSTS ASSOCIATED WITH MAINTAINING DRAINAGE DURING CONSTRUCTION SHALL BE INCIDENTAL TO AND INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 MAINTAINING TRAFFIC, AS PER PLAN.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

MAINTENANCE OF TRAFFIC PHASING NOTES

THIS PROJECT WILL RECONSTRUCT THE INTERSECTION OF SR 73 AND JACKSONBURG RD. THE INTERSECTION WILL BE RECONSTRUCTED AS A SINGLE LANE ROUNDABOUT.

CONSTRUCTION PHASING:

PRE-PHASE 1:

A. CONSTRUCT CULVERT EXTENSION AND INSTALL TEMPORARY PAVEMENT PER OMUTCD FIGURE 6H-6 "SHOULDER WORK WITH MINOR ENCROACHMENT" OR MT-97.10.

PHASE 1:

- A. CLOSE JACKSONBURG RD SOUTH OF SR 73 AND DETOUR TRAFFIC.
- B. CONSTRUCT THE SOUTHERN HALF OF THE ROUNDABOUT.
- C. CONSTRUCT TEMPORARY PAVEMENT REQUIRED FOR PHASE 2.

PHASE 2:

- A. CLOSE JACKSONBURG RD NORTH OF SR 73 AND DETOUR TRAFFIC.
- B. CONSTRUCT THE NORTHERN HALF OF THE ROUNDABOUT.

PHASE 3:

A. REMOVE THE REMAINING TEMPORARY PAVEMENT AND INSTALL ALL REMAINING CURB AND GUTTER PER OMUTCD FIGURE 6H-6 "SHOULDER WORK WITH MINOR ENCROACHMENT", BY CLOSING THE ADJACENT LANE PER MT-97.10, OR WHERE THE SPLITTER ISLAND DOESN'T PERMIT AN ADJACENT LANE CLOSURE PER MT-97.10, THE ADJACENT LANE MAY BE CLOSED FOR DURATIONS NOT TO EXCEED 15 MINUTE INTERVALS IF VEHICLES ARE WAITING.

B. COMPLETE THE SOUTHERN SPLITTER ISLAND PER OMUTCD FIGURE 6H-6 "SHOULDER WORK WITH MINOR ENCROACHMENT", OR THE ADJACENT LANE MAY BE CLOSED FOR DURATIONS NOT TO EXCEED 15 MINUTE INTERVALS IF VEHICLES ARE WAITING.

NOTICE OF CLOSURE SIGN

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLAT SHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE.

NOTICE OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
ROAD CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	>= 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DDY FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME FRAME TABLE		
ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO PERMITS AND PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	>= 2 WEEKS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	2 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO CLOSURE

ANY UNFORSEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING RESTRICTION SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER, DISTRICT PUBLIC INFORMATION OFFICER AT DOT.D08.PIO@DOT.OHIO.GOV, DISTRICT PERMIT SECTION AT DOT.D08.PERMITS@DOT.OHIO.GOV, CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION AT HAULING.PERMITS@DOT.OHIO.GOV, AND DISTRICT TRAFFIC DETOUR SECTION AT DOT.D08.DETOURS@DOT.OHIO.GOV, USING THE NOTIFICATION TIME FRAME TABLE.

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

INCREASED BARRIER DELINEATION, AS SPECIFIED HEREIN, SHALL BE INSTALLED ON ALL PB AND PERMANENT CONCRETE BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE UNDER EITHER OF THE FOLLOWING CONDITIONS: ALONG TAPERS AND TRANSITION AREAS; OR ALONG CURVES (OUTSIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES.

THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS OR THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS.

DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION, APPROXIMATELY 34 INCHES LONG AND 6 INCHES WIDE AND SHALL BE "CRIMPED." PANELS SHALL BE INSTALLED AND SPACED PER TRAFFIC SCD MT-101.70

TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE BETWEEN THE ADJACENT BARRIER REFLECTORS. THE TRIPLE-STACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT-101.70

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE (BIDIRECTIONAL) 72 EACH

ITEM 614, OBJECT MARKER, ONE-WAY 72 EACH

ITEM 614, INCREASED BARRIER DELINEATION 610 FEET

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

ALONG RUNS OF INCREASED BARRIER DELINEATION WHERE THIS ITEM IS PROVIDED, THE QUANTITY SHALL BE MEASURED AS THE ENTIRE LENGTH OF THE RUN OF INCREASED BARRIER DELINEATION, INCLUDING THE SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.

ITEM 614 - WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

A. DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

B. DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G. DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 100 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616 - WATER 59 M. GAL.

REMOVE & RE-ERECT PEDESTAL W/ SOLAR POWERED FLASHERS

IN ADDITION TO ITEMS 632 AND 732 FOR THE VARIOUS ITEMS INCLUDED HEREIN, THE CONTRACTOR SHALL CAREFULLY REMOVE THE EXISTING PEDESTAL, AUGER BASE, AND SOLAR POWERED FLASHERS ALONG WITH ASSOCIATED APPURTENANCES FROM EXISTING LOCATION AS SHOWN IN THE PLANS AND RELOCATED TO TEMPORARY LOCATION AS SHOWN.

THE CONTRACTOR SHALL INSTALL A GROUND ROD AND PEDESTAL FOUNDATION OR AUGER BASE AT THE PROPOSED LOCATION SHOWN IN THE PLAN. THE EXISTING PEDESTAL WITH SOLAR POWERED FLASHERS ALONG WITH ASSOCIATED APPURTENANCES SHALL BE RE-ERECTED WHERE SHOWN IN THE PLANS. THE EXISTING FOUNDATION SHALL BE REMOVED.

IF ANY DAMAGE IS MADE TO THE EQUIPMENT TO BE REUSED OCCURS DURING THE REMOVAL, RELOCATION, AND RE-ERECTION OF THIS EQUIPMENT IT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC. REMOVAL AND RE-ERECTION TO THE FINAL PROPOSED LOCATION IS PAID FOR SEPARATELY.

EARTHWORK FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY.

EXCAVATION FOR MAINTAINING TRAFFIC 10,537 CU.YD.
 EMBANKMENT FOR MAINTAINING TRAFFIC 13,489 CU.YD.
 SEEDING AND MULCHING, CLASS 1 5,827 S.Y.

PAYMENT FOR THESE ITEMS SHALL BE INCLUDED IN ITEM 614 MAINTAINING TRAFFIC LUMP SUM.

ITEM 614- WORK ZONE PAVEMENT MARKINGS, SPRAY THERMOPLASTIC, AS PER PLAN

THE CONTRACTOR SHALL PLACE THE WORK ZONE PAVEMENT MARKINGS, SPRAY THERMOPLASTIC, AS PER PLAN PER ODOT SPECIFICATION 614.11 AND ODOT SPECIFICATION 648 WITH THE EXCEPTION ODOT SPECIFICATION 648.05 SHALL BE MODIFIED TO ALLOW PLACEMENT OF THE MATERIAL AT A TEMPERATURE OF NOT LESS THAN 35 DEGREES FAHRENHEIT.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS AND AT TIMES AS DIRECTED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS PER THE REQUIREMENTS OF C&MS 614.11.

ITEM 614 WORK ZONE CENTER LINE, CLASS I, SPRAY THERMOPLASTIC, AS PER PLAN 0.44 MILE

ITEM 614 WORK ZONE EDGE LINE, CLASS I, 6", SPRAY THERMOPLASTIC, AS PER PLAN 1.48 MILE

ITEM 614 WORK ZONE DOTTED LINE, CLASS I, SPRAY THERMOPLASTIC, AS PER PLAN 80 FEET

ITEM 614 WORK ZONE STOP LINE, CLASS I, SPRAY THERMOPLASTIC, AS PER PLAN 27 FEET

THE SPRAY THERMOPLASTIC PAY ITEMS ARE PROVIDED FOR PHASE 2.

INTERIM COMPLETION REQUIREMENTS

THE PROJECT HAS AN INTERIM COMPLETION DATE OF NOVEMBER 15, 2020. ON OR BEFORE THE INTERIM COMPLETION DATE, PHASE 1 SHALL BE COMPLETE AND THE SOUTHERN LEG OF THE INTERSECTION SHALL BE OPEN TO TRAFFIC.

THE CONTRACT WILL BE SUBJECT TO DAILY DISINCENTIVES FOR FAILURE TO COMPLETE ALL THE REQUIRED WORK, AND ASSOCIATED INCIDENTALS RELATED TO THE WORK, AS OUTLINED IN THE TABLE INCLUDED IN THIS NOTE. APPLICATION OF THE DISINCENTIVES WILL BE BASED ON THE OVERALL CONTRACT AMOUNT. DAILY DISINCENTIVES ARE APPLICABLE TO THE WORK REQUIRED TO THE INTERIM COMPLETION DATE ONLY. THE CONTRACT IS STILL SUBJECT TO LIQUIDATED DAMAGES AS OUTLINED IN CMS 108.07 FOR THE REMAINDER OF THE CONTRACT.

SCHEDULE OF DAILY DISINCENTIVES FOR FAILURE TO MEET THE INTERIM COMPLETION REQUIREMENTS		
ORIGINAL CONTRACT AMOUNT (TOTAL AMOUNT AT THE TIME OF BIDDING)		DAILY DISINCENTIVE FOR EACH FULL OR PARTIAL CALENDAR DAY OF TIME OVERRUN BEYOND THE PLAN INTERIM COMPLETION DATE
FOR MORE THAN	TO AND INCLUDING	
\$0.00	\$500,000	\$800
\$500,000	\$1,000,000	\$1,200
\$1,000,000	\$5,000,000	\$2,500
\$5,000,000	\$10,000,000	\$3,500
\$10,000,000	\$50,000,000	\$5,000
OVER \$50,000,000		\$7,500

ITEM SPECIAL MISC.: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION

ALL CONCRETE SHALL BE TESTED. ALL TESTING, INSPECTION AND QUALITY CONTROL FOR CONCRETE, NOT INCLUDED UNDER QC/QA PAY ITEMS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A CONCRETE TESTING CONSULTANT WITH PREVIOUS EXPERIENCE AND FAMILIARITY IN ODOT PROCEDURES, CONCRETE TESTING REQUIREMENTS AND CONCRETE TESTING DOCUMENTATION. AT LEAST 30 DAYS PRIOR TO CONCRETE PLACEMENT, SUBMIT TO THE ENGINEER FOR APPROVAL, THE PROPOSED CONCRETE TESTING CONSULTANT ALONG WITH THE RESUMES OF THE PROPOSED TESTING PERSONNEL.

TESTING CONCRETE FOR STRUCTURES AND PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE PERFORMED AS OUTLINED IN CMS SPECIFICATIONS 455 RESPECTIVELY.

THROUGH THE CONTRACTOR, THE CONSULTANT SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONCRETE PLACED IS IN ACCORDANCE WITH THE SPECIFICATIONS. SUCH WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND THE ODOT CONSTRUCTION INSPECTION MANUAL OF PROCEDURES FOR CONCRETE. THE CONCRETE CONSULTANT SHALL PROVIDE THE NECESSARY TRAINED TECHNICIAN(S), ALL EQUIPMENT, AND SHALL FURNISH THE PROJECT ENGINEER WITH TWO (2) COPIES OF ALL TEST RESULTS WITHIN 24 HOURS AFTER COMPLETION OF CONCRETE PLACEMENT.

THE TECHNICIAN SHALL BE ACI LEVEL 1 CERTIFIED AND WILL BE REQUIRED TO DEMONSTRATE HIS/HER COMPETENCE AND EXPERIENCE LEVELS TO THE ENGINEER PRIOR TO BEGINNING WORK. THE ENGINEER WILL ORDER THE CONTRACTOR TO REPLACE ANY TECHNICIAN THAT IS NOT VERSED IN THE REQUIRED TESTING PROCEDURE.

THE TECHNICIAN SHALL VERBALLY NOTIFY THE ODOT PROJECT ENGINEER OF ANY FAILING TEST AND SHALL SUBMIT FOLLOW-UP WRITTEN NOTIFICATION TO THE PROJECT ENGINEER OF REMEDIAL ACTION(S) TAKEN. TESTS SHALL BE TAKEN AS SPECIFIED WITHIN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, CONCRETE MANUAL OR APPROPRIATE SUPPLEMENTAL SPECIFICATION AS LISTED IN THE PROPOSAL GOVERNING THE PROJECT. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAKE IMMEDIATE CORRECTIONS OR ADJUSTMENTS TO THE CONCRETE MIX VIA DIRECT COMMUNICATION WITH THE CONCRETE SUPPLIER'S PLANT PERSONNEL TO MAINTAIN UNINTERRUPTED COMPLIANCE WITH THE SPECIFICATIONS UPON NOTIFICATION OF CONCRETE MIX NON-COMPLIANCE BY THE CONSULTANT TECHNICIAN. THE PROJECT ENGINEER MAY REQUIRE MORE FREQUENT TESTING AS CONDITIONS WARRANT.

UPON COMPLETION OF DAILY CONCRETE PLACEMENT(S), THE CONCRETE CONSULTANT SHALL PROVIDE THE PROJECT ENGINEER WITH DAILY TEST REPORTS, TE-45'S, INSPECTORS DAILY REPORT AND SUPPORTING DOCUMENTATION FOR EACH ITEM OF CONCRETE WORK PERFORMED SEPARATED BY MIX DESIGN. SUBSEQUENTLY, UPON COMPLETION OF AN ENTIRE CONCRETE SPECIFICATION ITEM, THE CONCRETE CONSULTANT SHALL ALSO PROVIDE THE PROJECT ENGINEER WITH TWO (2) COPIES OF AN ADDITIONAL INSPECTION REPORT BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHICH CONTAINS THE TESTING-RESULTS SUMMARY FOR EACH ITEM BY CONTRACT REFERENCE NUMBER AND THE CONSULTANT'S CONCLUSIONS RELATIVE TO SPECIFICATION COMPLIANCE FOR ALL CONCRETE-TESTING WORK.

THE ODOT PROJECT ENGINEER RESERVES THE RIGHT TO MAKE UNANNOUNCED QUALITY-CONTROL TESTS TO VERIFY PROCEDURES USED AND RESULTS BEING OBTAINED BY THE CONTRACTOR.

THE CONCRETE TECHNICIAN SHALL WORK UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHO WILL MONITOR THE CONCRETE TEST RESULTS. THE FINAL INSPECTION REPORTS FOR EACH COMPLETED ITEM SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, CERTIFYING THAT ALL CONCRETE TESTS PROVIDED BY THE CONTRACTOR MET APPLICABLE CONTRACT REQUIREMENTS. A FINAL REPORT ISSUED BY THE CONSULTING FIRM SHALL CONTAIN A CERTIFIED STATEMENT OF COMPLIANCE WITH ODOT SPECIFICATIONS AND ANY OTHER CONCLUSIONS REGARDING THE CONCRETE MATERIALS INCORPORATED INTO THE PROJECT. SUCH STATEMENT SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO. AND, THE CONCRETE CONSULTANT SHALL BE REQUIRED TO ATTEND MONTHLY PROGRESS MEETINGS AS REQUIRED BY THE PROJECT ENGINEER.

ADDITIONALLY, THE CONTRACTOR SHALL BE REQUIRED TO KEEP A POSTED LIST OF BEAM AND CYLINDER IDENTIFICATION NUMBERS FOR THE PURPOSE OF IDENTIFYING THE CORRESPONDING PLACEMENT LOCATION AND CONCRETE SPECIFICATION ITEM.

PAYMENT SHALL BE BID AS LUMP SUM FOR ITEM SPECIAL MISC.: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION. THE ITEM WILL BE PAID FOR AS FOLLOWS:

- UPON APPROVAL OF CONSULTANT 20%
- PROGRESSIVE EQUIVALENT PAYMENTS 50%
- UPON SUBMISSION OF FINAL REPORT 30%.

THE TECHNICIAN SHALL HAVE THE FULL EFFECT AND AUTHORITY OF AN ODOT PROJECT INSPECTOR IN DETERMINING ACCEPTABILITY OF MATERIAL AND CONCRETE PLACEMENT PRACTICES.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 690 - SPECIAL MISC.: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION LUMP SUM

MAINTENANCE OF TRAFFIC SUBSUMMARY

BUT - 73 - 13.05

CALC: CHECKED:		DATE: DATE:		SUBSUMMARY	
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
614	11000	LS		MAINTAINING TRAFFIC	12
614	1110	100	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	12
614	11630	610	FT	INCREASED BARRIER DELINEATION	12
614	12336	18	EACH	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	12
614	12420	LS		DETOUR SIGNING	
614	13310	72	EACH	BARRIER REFLECTOR, TYPE 1, (BIDIRECTIONAL)	12
614	13350	72	EACH	OBJECT MARKER, ONE WAY	12
614	21000	0.91	MILE	WORK ZONE CENTER LINE, CLASS I	
614	21001	0.91	MILE	WORK ZONE CENTER LINE, CLASS I, SPRAY THERMOPLASTIC, AS PER PLAN	13
614	22010	2.68	MILE	WORK ZONE EDGE LINE, CLASS I, 6"	
614	22011	1.48	MILE	WORK ZONE EDGE LINE, CLASS I, 6", SPRAY THERMOPLASTIC, AS PER PLAN	13
614	24000	46	FT	WORK ZONE DOTTED LINE, CLASS I, 6"	
614	24001	46	FT	WORK ZONE DOTTED LINE, CLASS I, 6", SPRAY THERMOPLASTIC, AS PER PLAN	13
614	26000	54	FT	WORK ZONE STOP LINE, CLASS I, 24"	
614	26001	54	FT	WORK ZONE STOP LINE, CLASS I, 24", SPRAY THERMOPLASTIC, AS PER PLAN	13
615	25000	7459	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
616	10000	59	MGAL	WATER	12
622	41100	3590	FT	PORTABLE BARRIER, UNANCHORED	

P:\PR54795\BUT\02059\Design\Roadway\Sheets\02059_GG001.dgn Sheet 3/17/2020 1:57:04 PM totman

SHEET NUM.								PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED NJL	CHECKED MSL
11	14	98	99	116	119			01/STR/ OT	02/STR/ OT								
			15					15		630	86002	15	EACH	TRAFFIC CONTROL (CONTINUED)			
			4					4		630	85201	4	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL			
			4					4		632	90010	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DELIVERY, AS PER PLAN	97		
1								1		632	90101	1	EACH	PEDESTAL, MISC.: REMOVAL & RE-ERECT PEDESTAL W/ SOLAR POWERED FLASHERS	97		
		0.71						0.71		644	00104	0.71	MILE	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	11		
		0.28						0.28		644	00300	0.28	MILE	EDGE LINE, 6"			
		110						110		644	00700	110	FT	CENTER LINE, DOUBLE SOLID			
		319						319		644	01510	319	FT	TRANSVERSE/DIAGONAL LINE			
		139						139		644	01520	139	FT	DOTTED LINE, 6"			
		61						61		644	20800	61	FT	DOTTED LINE, 12"			
														YIELD LINE			
														WATER WORK			
								2.4	1.6	638	07800	4	EACH	6" GATE VALVE AND VALVE BOX			
								589.4	412.6	638	01140	1,002	FT	6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR14			
								119.4	83.6	638	04900	203	FT	1" COPPER SERVICE BRANCH			
								0.6	0.4	638	10201	1	EACH	6" FIRE HYDRANT, AS PER PLAN, TWO-WAY	131		
								2.9	2.1	638	11200	5	EACH	METER, SETTING, STOP AND CHAMBER			
								52.9	37.1	638	98600	90	FT	WATER WORK, MISC.:2" PVC CASING	131		
								29.4	20.6	638	98600	50	FT	WATER WORK, MISC.:12" STEEL CASING	131		
								1.8	1.2	638	98000	3	EACH	WATER WORK, MISC.:CONNECT TO EX. WATER MAIN	131		
														LANDSCAPING			
				76				76		661	00501	76	CY	MULCH, AS PER PLAN NO. 57 SIZE, WASHED RIVER GRAVEL, 4" THICKNESS	116		
				2,988				2,988		661	12100	2,988	EACH	GROUND COVER AND VINES, 1 YEAR, FLAT VINVA MINOR - COMMON PERIMINKLE			
				30				30		661	20070	30	EACH	DECIDUOUS SHRUB, 30" HEIGHT CORNUS ALBA 'CHBLZAM' - CHBLZAM SIBERIAN DOGWOOD			
				76				76		661	30040	76	EACH	EVERGREEN SHRUB, 18" HEIGHT THUJA OCCIDENTALIS 'AUREA' - GOLDEN GLOBE ARBORVITAE			
				424				424		662	31000	424	GAL	LANDSCAPE WATERING			
														STRUCTURE 20 FOOT SPAN AND UNDER (BUT-073-1326)			
					LS			LS		202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	119		
					LS			LS		503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	119		
					LS			LS		503	21300	LS		UNCLASSIFIED EXCAVATION			
					6,929			6,929		509	10000	6,929	LB	EPOXY COATED REINFORCING STEEL			
					18			18		510	10001	18	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	119		
					68			68		511	46010	68	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING			
					77			77		511	46511	77	CY	CLASS QC1 CONCRETE, FOOTING, AS PER PLAN			
					75			75		512	10100	75	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	123		
					195			195		512	33000	195	SY	TYPE 2 WATERPROOFING			
					60			60		516	13600	60	SF	1" PREFORMED EXPANSION JOINT FILLER			
					LS			LS		518	21230	LS		POROUS BACKFILL WITH GEOTEXTILE FABRIC			
					19			19		601	11000	19	SY	RIPRAP, TYPE D			
					66			66		601	32004	66	CY	ROCK CHANNEL PROTECTION, TYPE A WITH GEOTEXTILE FABRIC			
					17			17		601	34200	17	CY	ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER			
					40			40		611	95521	40	FT	10' X 9' CONDUIT, TYPE A, 706.05, AS PER PLAN, (DESIGN EARTH COVER 7')	123		
					21			21		613	41200	21	CY	LOW STRENGTH MORTAR BACKFILL			
														MAINTENANCE OF TRAFFIC			
	100							100		614	11110	100	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE			
	610							610		614	11630	610	FT	INCREASED BARRIER DELINEATION			
	18							18		614	12336	18	EACH	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)			
	LS							LS		614	12420	LS		DETOUR SIGNING			
	72							72		614	13310	72	EACH	BARRIER REFLECTOR, TYPE 1 BIDIRECTIONAL			
	72							72		614	13350	72	EACH	OBJECT MARKER, ONE WAY			
	0.91							0.91		614	21000	0.91	MILE	WORK ZONE CENTER LINE, CLASS I			
	0.44							0.44		614	21001	0.44	MILE	WORK ZONE CENTER LINE, CLASS I, SPRAY THERMOPLASTIC, AS PER PLAN	13		
	2.68							2.68		614	22010	2.68	MILE	WORK ZONE EDGE LINE, CLASS I, 6"			
	1.48							1.48		614	22011	1.48	MILE	WORK ZONE EDGE LINE, CLASS I, 6", SPRAY THERMOPLASTIC, AS PER PLAN	13		
	46							46		614	24000	46	FT	WORK ZONE DOTTED LINE, CLASS I, 6"			
	80							80		614	24001	80	FT	WORK ZONE DOTTED LINE, CLASS I, 6", SPRAY THERMOPLASTIC, AS PER PLAN	13		
	54							54		614	26000	54	FT	WORK ZONE STOP LINE, CLASS I, 24"			
	27							27		614	26001	27	FT	WORK ZONE STOP LINE, CLASS I, 24", SPRAY THERMOPLASTIC, AS PER PLAN	13		
	7,459							7,459		615	25000	7,459	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B			
	59							59		616	10000	59	MGAL	WATER			
	3,590							3,590		622	41100	3,590	FT	PORTABLE BARRIER, UNANCHORED			
														INCIDENTALS			
								LS		614	11000	LS		MAINTAINING TRAFFIC			
								LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING			
								LS		624	10000	LS		MOBILIZATION			

GENERAL SUMMARY

BUT-73-13.05



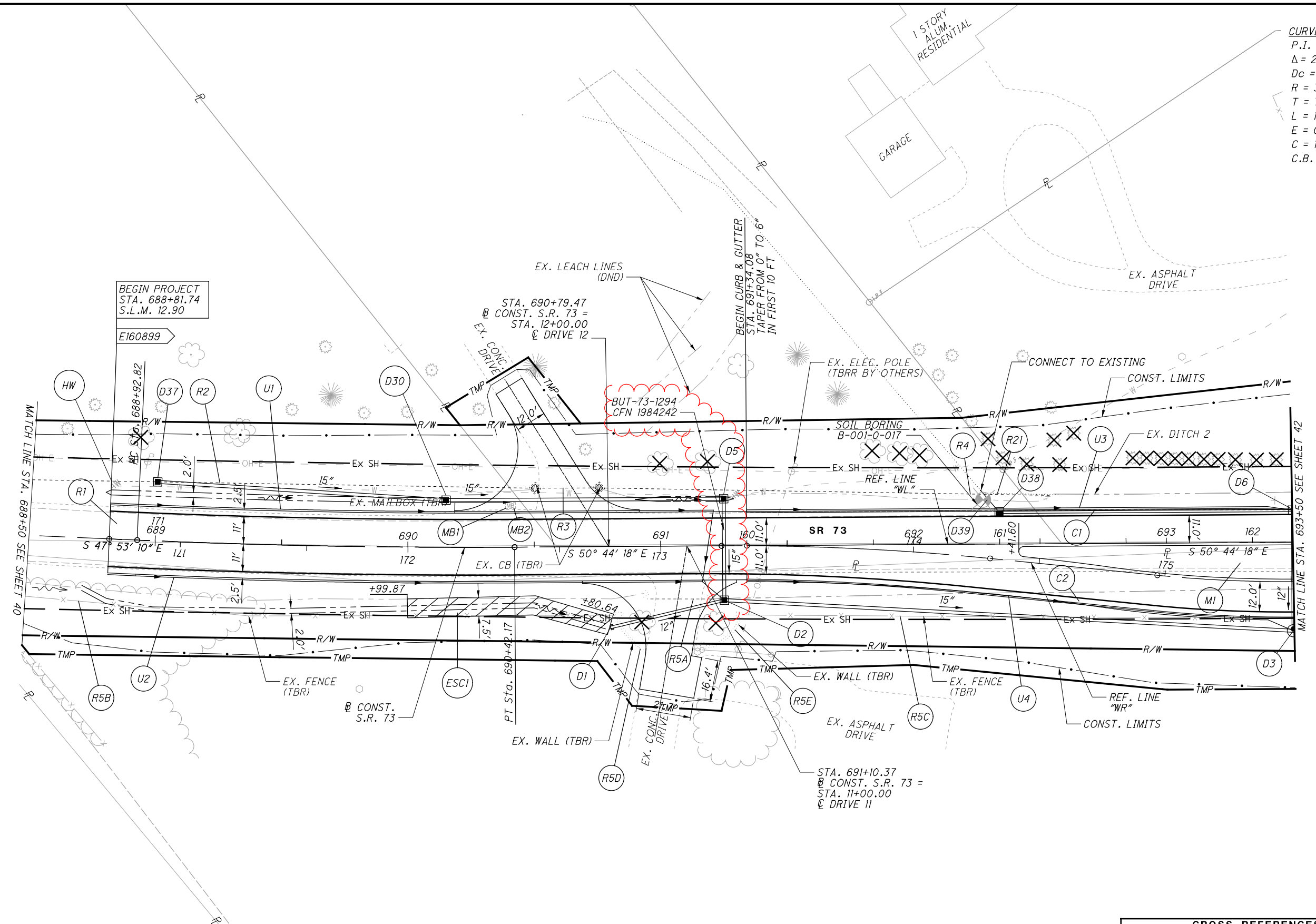
CURVE DATA - S.R. 73
 P.I. Sta. 689+67.51
 $\Delta = 2^\circ 51' 09''$ (LT)
 $D_c = 1^\circ 54' 35''$
 $R = 3,000.00'$
 $L = 149.35'$
 $E = 0.93'$
 $C = 149.34'$
 $C.B. = S 49^\circ 18' 44'' E$



CALCULATED
 MRT
 CHECKED
 JED

PLAN - S.R. 73
STA. 688+50.00 TO STA. 693+50.00

BUT-73-13.05



LEGEND
 ITEM 670 - DITCH EROSION PROTECTION MAT

TBR = TO BE REMOVED
 TBRR = TO BE REMOVED & RELOCATED

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
49	S.R. 73 PROFILE
49-56	ROUNDABOUT PROFILES
88	DRIVE DETAILS
92	DRIVE PROFILES
109-115	LIGHTING PLANS

P:\PR54795\BUT\102059\Design\Roadway\Sheets\102059_GP001.dgn Sheet 3/17/2020 11:9:04 AM totman



CALCULATED
MRT
CHECKED
JED

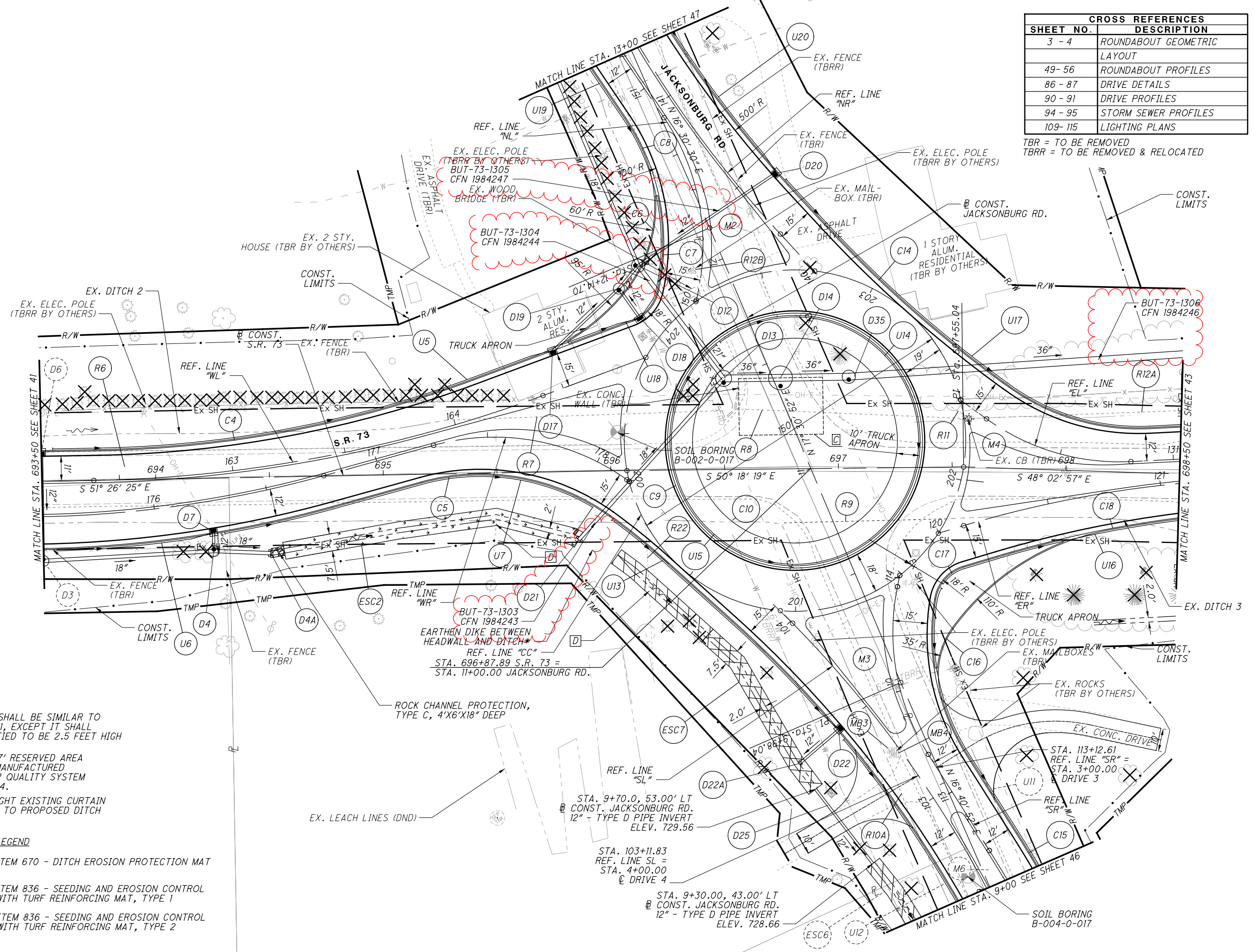
PLAN - S.R. 73
STA. 693+50.00 TO STA. 698+50.00

BUT-73-13.05

42
154

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
3 - 4	ROUNDABOUT GEOMETRIC LAYOUT
49- 56	ROUNDABOUT PROFILES
86 - 87	DRIVE DETAILS
90 - 91	DRIVE PROFILES
94 - 95	STORM SEWER PROFILES
109- 115	LIGHTING PLANS

TBR = TO BE REMOVED
TBRR = TO BE REMOVED & RELOCATED



* DIKE SHALL BE SIMILAR TO CB-3.1, EXCEPT IT SHALL MODIFIED TO BE 2.5 FEET HIGH

- ⓐ 25'X37' RESERVED AREA FOR MANUFACTURED WATER QUALITY SYSTEM TYPE 4.
- ⓓ DAYLIGHT EXISTING CURTAIN DRAIN TO PROPOSED DITCH

LEGEND

- ITEM 670 - DITCH EROSION PROTECTION MAT
- ITEM 836 - SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1
- ITEM 836 - SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2

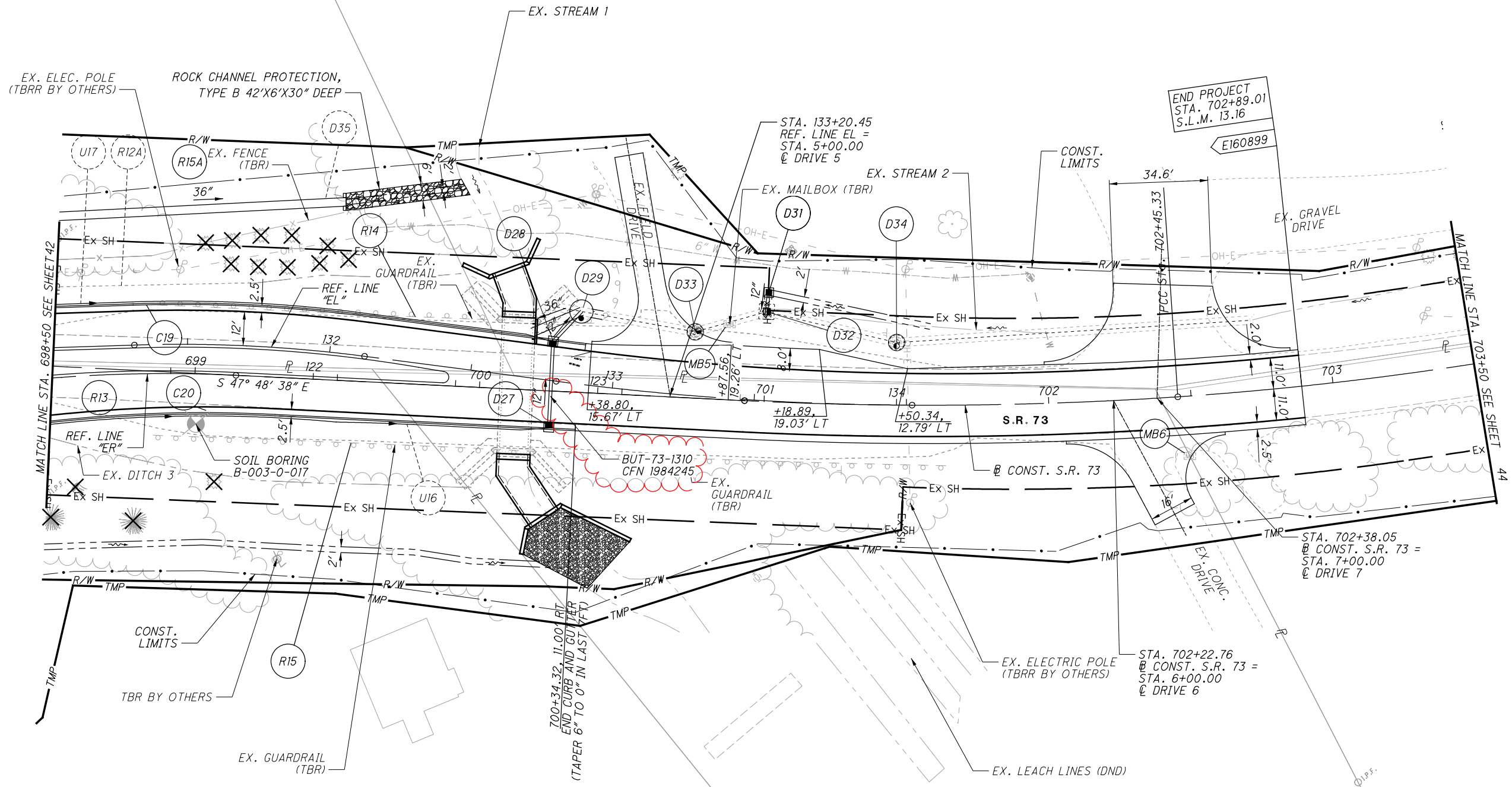
P:\PR54795\BUT\102059\Roadway\Sheets\102059_GP002.dgn Sheet 3/17/2020 11:08:08 AM totman

TR - TO REMAIN
 TBR - TO BE REMOVED
 DND - DO NOT DISTURB
 TBRR - TO BE REMOVED AND
 RELOCATED

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
3 - 4	ROUNDBOUT GEOMETRIC LAYOUT
49-56	ROUNDBOUT PROFILES
94	STORM SEWER PROFILES
109-115	LIGHTING PLANS
118-129	STRUCTURE PLANS

0 20 40
 HORIZONTAL SCALE IN FEET

CALCULATED
 MRT
 CHECKED
 JED



P:\PR54795\BUT\02059\Design\Roadway\Sheets\02059_GPO03.dgn Sheet 3/17/2020 11:19:13 AM totman

PLAN - S.R. 73
 STA. 698+50.00 TO STA. 703+50.00

BUT-73-13.05